

IN THE CLAIMS:

Please amend claims 1, 3, 4, 10 and 12, cancel claims 6-9, 11 and 13-16 without prejudice, and add new claim 17. Claims 2 and 5 were previously cancelled without prejudice in the March 17, 2003 Amendment.

1. (Currently Amended) A soft flexible helical vasoocclusion coil for use with a wire having a distal end, said coil having:
- (a) a proximal end, said proximal end having a coupling member formed therein adapted to detachably couple said proximal end to the distal end of the wire;
 - (b) a distal end;
 - (c) said helical vasoocclusion coil comprising a multiplicity of windings having a first diameter immediately adjacent said distal end and said proximal end; and
 - (d) said helical vasoocclusion coil being further wound into a second diameter smaller than said first diameter at said proximal end and at said distal end, whereby said proximal end and said distal end are positioned radially inwardly of said immediately adjacent first diameter, such that the coil acts to occlude a vessel or a cavity when placed within said vessel or cavity.

2. (Cancelled).

3. (Currently Amended) The coil of claim 1 wherein said proximal end has a coupling member that detachably interlocks with the distal end of the wire.

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4. (Currently Amended) An assembly for use in occluding a vessel or a cavity within a vessel comprising:

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- (a) an elongated wire having a distal end that carries a first coupling member; and
 - (b) a soft flexible helical vasoocclusion coil having:
 - (i) a proximal end that carries a second coupling member formed therein, said second coupling member being that is detachably coupled to the first coupling member;
 - (ii) a distal end;
 - (iii) said helical vasoocclusion coil comprising a multiplicity of windings having a first diameter immediately adjacent said proximal end and said distal end; and
 - (iv) said helical vasoocclusion coil being further wound into a second diameter smaller than said first diameter at said proximal end and at said distal end, whereby said distal end and the first coupling member at said proximal end are positioned radially inwardly of said immediately adjacent first diameter, such that the coil acts to occlude a vessel or a cavity when placed within said vessel or cavity.

5. (Cancelled).

6. (Cancelled).

7. (Cancelled).

8. (Cancelled).

9. (Cancelled).

10. (Currently Amended) The coil of claim 4 6, wherein the proximal end ~~has a coupling member that~~ detachably interlocks with the distal end of the wire.

11. (Cancelled).

12. (Currently Amended) The coil of claim 1 6, wherein the first diameter is between about 0.2 mm and about 30 mm.

13. (Cancelled).

14. (Cancelled).

15. (Cancelled).

16. (Cancelled).

34 17. (New) The coil of claim 4, wherein the first diameter is between about 0.2 mm and about 30 mm.